### OCCUPATIONAL SURVEY REPORT ELECTRONIC PRINCIPLES



MISSILE ELECTRONIC MAINTENANCE SPECIALIST

AFSC 31653

AFPT 90-316-222 2 September 1977

OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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This report summarizes the results			
Principles Inventory to airmen ass Specialist (AFSC 31653). The repo			
tasks and knowledge needed to perf	orm the jobs wit	hin the s	pecialty or
career ladder.	•		
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This specialty has the following functions:

Assembles, installs, calibrates, operates, and maintains instrumental equipment. Assembles, installs, and operates instrumentation and telementry equipment. Repairs, overhauls, and maintains instrumentation systems. Tests and modifies instrumentation components. Supervises instrumentation personnel.

#### TABLE OF CONTENTS

	PAGE NUMBER
PREFACE	2
INTRODUCTION	
	-
DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)	3
ADMINISTRATION	
	•
PRESENTATION OF RESULTS	6
APPENDIX	-

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#### PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Missile Electronic Maintenance Specialist, AFSC 31653.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Captain Harold T. Welch. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

## ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT MISSILE ELECTRONIC MAINTENANCE SPECIALIST AFSC 31653

#### INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned as Missile Electronics Maintenance Specialist (AFSC 31653). The data for this report were collected during the period April through June 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel both CONUS and overseas and assigned to selected major commands.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

#### **ADMINISTRATION**

The E<sup>1</sup>ectronic Principles Inventory was administered by mail to AFSC 31653 airmen worldwide. Responses from 321 individuals represented 57 percent of the total of all AFSC 31653 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

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TABLE 1
EPI SUBJECT AREAS

SEQUENCE OF		BEGINNING	
SUBJECT AREAS	SUBJECT ADEA TITLE	ITEM	GPSUM
***	SUBJECT AREA TITLE	<u>Number</u>	PAGE NUMBER
1	MATHEMATICS		THE HOUDEN
	MATHEMATICS	Al	2
2	DIRECT CURRENT AND VOLTAGE	A15	2
ى 1	UEDIDI MUCE	A24	2
4	MULTIMETER USES	B52	2 2 3
2 3 4 5 6	ALTERNATING CURRENT	B61	
6	INDUCTORS AND INDUCTIVE		4
	KEACTANCE	B67	
7	CAPACITORS AND CAPACITIVE		4
	REACTANCE	C92	
8	TRANSFORMERS		5
9	MACHETICM	C128	6
10	DCI CIDCUITE	C171	7
11	CAPACITORS AND CAPACITIVE REACTANCE TRANSFORMERS MAGNETISM RCL CIRCUITS SERIES AND PARALLEL DESCRIPTION	D185	8
• •	AFULCS AND PARALLEL RESONANCE	D229	G
12			10
13	FILIERS	D239	10
	COUPLING	E261	
14	SOLDERING	E273	11
15	RELAYS	E295	11
16	FILTERS COUPLING SOLDERING RELAYS MICROPHONES SPEAKERS OSCILLOSCOPES SEMICONDUCTOR DIODES TRANSISTORS	F314	12
17	SPEAKERS	F314	12
18	OSCILLOSCOPES	F327 F342	13
19	SEMICONDUCTOR DIODES	1342	13
20	TRANSISTORS	G354	13
21	TRANSISTOR AMPLIFIERS	6404	15
22	SOUTH-STATE CHECKAL PURPOSE	G428	16
	SOLID-STATE SPECIAL PURPOSE DEVICES		• •
23	DUMED CHOOLIES	H477	19
24	POWER SUPPLIES	H483	19
25	POWER SUPPLIES OSCILLATORS MULTIVIBRATORS	H512	19
26	MULTIVIBRATORS	1539	20
27	LIMITERS AND CLAMPERS	1555	
	ELECTRON TUSES	I565	21
28	ELECTRON TUBE AMPLIFIERS	J609	21
0.0	AND CIRCUITS	0003	
29	SPECIAL PURPOSE ELECTRON	1616	22
	TUBES	J616	
30	HETERODYNING, MODULATION, AND		23
	DEMODULATION AND	J632	
31	AM SYSTEMS		23
32	FM SYSTEMS	K638	23
- <del>-</del>	(1) 3131EN3	K666	24
			to T

#### TABLE 1 (CONTINUED)

#### EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
33	NUMBERING SYSTEMS LOGIC FUNCTIONS BOOLEAN EQUATIONS COUNTERS TIMING CIRCUITS		
34	LOGIC FUNCTIONS	K685	25
35	ROOLEAN ECHATIONS	L695	25
36	COUNTEDS	L708	26
37	TIMING CIDCUITS	L733	27
38	USE OF CIONAL OFFICE	M757	27
39	ONE OF STRIME BEINERHICIDS	MZCO	28
40	MOTORS AND GENERATORS	M779	28
41	PICTER MOVEMENTS	N808	29
41	SATURABLE REACTORS AND	N818	<b>L</b> J
42	MAGNETIC AMPLIFIERS		29
	WAVESHAPING CIRCUITS	N834	30
43	SINGLE SIDEBAND SYSTEMS	0845	30
44	PULSE MODULATION SYSTEMS	0875	30 31
45	ANTENNAS	0914	32
46	TRANSMISSION LINES	P953	
47	WAVEGUIDES AND CAVITY	P984	34
	RESONATORS	F 304	25
48	MTCDOLIANE AND -	P1034	35
	USCILLATARA	F 1034	
49	REGISTERS STORAGE DEVICES	01110	37
50	STORAGE DEVICES	01110	39
51	DIGITAL TO ANALOG CONVERTERS	01117	40
52	PHANTASTRONS		40
53	SCHMITT TRIGGERS	Q1140	41
54	PHANTASTRONS SCHMITT TRIGGERS CABLE FABRICATION	R1141 R1144	41
55	CABLE FABRICATION INPUT/OUTPUT DEVICES	R1144	41
56		51146	41
57	PHOTO SENSITIVE DEVICES	S1149	41
<b>.</b> ,	SYNCHRONOUS VIBRATIONS	S1150	
58	(CHOPPER CIRCUITS)		41
59	INCRAKED	T1159	41
60	LHOEKO	T1136	42
61	(CHOPPER CIRCUITS) INFRARED LASERS DISPLAY TUBES PROGRAMMING	T1220	43
62		U1234	43
UZ	DB AND POWER RATIOS	U1255	44

TABLE 2

COMMAND REPRESENTATION OF SURVEY SAMPLE

	31	653
COMMAND	PERCENT ASSIGNED	PERCENT OF SAMPLE
AFSC	76	76
SAC	6	8
AFCS	. 6	7
ATC	4	6
OTHERS	8	3
TOTAL	100	100

Total Assigned - 500 Total Sampled - 321 Percent Sampled - 57%

#### PRESENTATON OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the three selected groups identified for this report. Pages 2-44 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on page 6 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Multimeter Uses (p. 3) and Soldering (p. 11) to low in areas such as Waveguides and Cavity Resonators (pp. 35-37) and Display Tubes (p. 43). Additional AFSC 31653 data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

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APPENDIX

PCT MBRS RESPONDING TYES! BY SELECTED GRPS

TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION DATA FOR SELECTED GROUPS IN THE BIASS CAREER FIELD.

REPORTS ON THE FOLLOWING GROUPS MERE HEGUESTED

321 MEMBERS. 245 MEMBERS. 74 MEMBERS. CONTAINING CONTAINING CONTAINING ALL AIRMEN DAFSC 31453 ALL AIRMEN DAFSC 31653 ASSIGNED AFSC ALL AIRMEN DAFSC 31653 NOT ASSIGNED TO AFSC \$PC074 \$PC077 \$PC078 GROUP IDENTITY & GROUP IDENTITY &

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01-15K	A 34 A3411 DO YOU USE RESISTUR COLOR CODES WHICH INDICATE	A 35 A3-12 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE	A 34 A3-13 GO YOU MAKE DECISIONS IN WHICH YOU MUST DETERNINE NOT TWO OR HONE BATTERIES MUST BE CONNECTED TOGETHER TO	ACMIEVE A SPECIFIC VOLTAGE.  A 37 A3-14 DO VOL USE OR REFER TO THE SCHEZATIC SYMBOLS RAICH A 37 A3-14 DO VOL USE OR REFER TO THE SCHEZATIC SYMBOLS RAICH	RESISTANCE FOR SERIES	A 39 A3-15 OF CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE	A 40 AS AS TO VOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES BENEFIT OF THE STREET	A 41 AND TO TOUR CALCULATE POWER DISSIPATION FOR SERIES	A 42 A3-12-12-12-12-12-12-12-12-12-12-12-12-12-	ARSISTAL CIRCUITS. A 43 A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SLRIES PARALLEL	RESISTIVE CIRCUITS. A 44 A3-21 DU YOU CALCULAIL INDIVIDUAL VOLTAGE DROPS FOR SERIES	PANALLEL RESISTIVE CIRCUITS. A 45 A3-22 DO YOU CALCULATE INDIVIOUAL BRANCH CURRENTS FOR	SERIES FARALLEL RESISTIVE CIRCUITS. A 16 A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES	PARALLEL MESISTIVE CINCUITS. A 47 A3-24 DO YOU CALCULATE TOTAL MESISTANCE FOM PARALLEL	RESISTIVE CIRCUITS. A 48 A3-25 DG YOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE	CIRCUITS. A 44 A3-26 DG YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR	PARALLEL RESISTIVE CIRCUITS. A 50 A3+27 DG YGU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR	PARALLEL RESISTIVE CIMCUITS. A 51 A3-28 DO YOU CALCULATE POWER DISSIPATION FUR PARALLEL	STIVE CI	REPAIR C	B1-03 DO YOU	100 DO 40-11	THE PROPERTY OF THE PROPERTY O	81-07 DO YOU	S4 B1-08 DO YOU COULOMB.	8 60 81-09 DO YOU PEAD SCHEMATICS.

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## TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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J	145	C2-38 DC YOU	60	•	•	
, ,	•	C2-39 DO YOU CLEAN OR LUBRI	~	+	-	
J	107	C2-tc Do You ADLUST THREE PHASE	<b>-</b>	<b>~</b> ,	⊸,	
U	9 6	C2-41 DO 700 IROUBLESHOOT IMMEE PHASE IMMNSFORMENS C2-42 DO 700 REMOVE OR REPLACE COMPLETE IMMEE PHASE	• •	` 2	<b>^</b>	
, ,		TARASFORMENS	^	•	-	
J	2	CARLO DO JOS ANTONIS ON ARTHREN INTER TABLE TABLETONING PARTS BUILT AN EINDINGS	•	•	•	
ľ	-7	CJ-01 DO YOU USE ON PEFER TO PERMANENT	20	5.6	3.2	
<b>ن</b> ر	172	COMPOS DO YOU USE OR REFER TO TEMPORARY MAGRETS	<b>3 7</b> -	- 4	30	MAGNETISM
,	•	MATERIALS	;	•	•	
J	174	CONTRACTOR TO THE PER TO RELUCTANCE OF MACNETIC	2	=	•	
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U	174	C3-06 DG TOU USE OR REFER TO RESIDUAL MAGNETISM	7,	52	28	
·		C3-07 DO YOU USE ON REFER TO	53	<b>?</b>	37	
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DY-TSX XSITHERE TO WARTH IN TARGET BY AND THE TO SEE THE TOTAL THE	C3-10 DO YOU USE ON REFER	IST C3-11 DO YOU USE OR REFER TO FLUX DEVSITY 182 C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT	MAGNETIC POLES, LIKE POLES REPEL AND UNICOS-13 DO YOU USE THE LEFT HAND THUMB RULE	DIRECTION OF MAGNETIC FIRIDS ABOUT STRAIGHT WIRES C 184 CAlais DO YOU USE THE LEFT MAND THUMB RULE TO FIND THE NORTH BOYS OF A CIRBSINT CARBAINE OFF		PRESENT JUB D 184 DI-202 DO YOU USE OR REFER TO VECTOR'S WHEN WORKING WITH MCL	U 187 DI-03 DO USE OR REFER TO PYTHAGOREAN THEOREM WHEN U 187 DI-03 DO USE OF PEFFER TO PYTHAGOREAN THEOREM WHEN	LIGG DI-CONTOURS, ON REFER TO SINE WHEN WORKING WITH RCL	D 189 DI-DS DO YOU USE OR REFER TO COSINE WHEN MORKING MITH RCL	CINCUITS 0 190 01-06 DO YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL	CIRCUITS o 191 di-d7 do 700 use or refer to matts when working with RCL	CLACULTS C. 42 DI-D8 DO YOU USE OR REFER TO TRUE POWER (PT) MMEN MORKING	•	D 143 01-04 DO YOU USE OR REFER TO RAXIMUM PONEX (FM) WHEN DISORRING BLITE FOL CIRCLITS	U 194 D1-10 DO YOU USE OR REFER TO AVERAGE POWER (PAVE) WHEN	D 195 DI-11 TO YOU USE OR REFER TO AFFARENT FORER (FA) WHEN	MORKING WITH RCL CIRCUITS O 194 01-12 Do You USE OR REFER TO POWER FACTOR (PF) AMEN WORKING	417H MC1	G	REL CIRCUITS D 199 DI-15 DO YOU USE OR HEFER TO SELECTIVITY WHEN WORKING WITH	RCL CIRCUITS 0 200 DI-16 DO YOU USE DR REFER TO RESONANT FREQUENCY WHEN	MCRAING WITH RCL CIRCUITS 0 231 01-17 00 YOU USE ON REFER TO HALF POWER POINTS WHEN		MIN MCL LINCOLTS D 203 DI-19 DO YOU USE OR REFER TO CIRCUIT Q WHEN WORKING WITH RCL CIRCUITS	

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	0 208	CINCULIS 8 01-24 DO YOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND	•	s	•	
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		DI-35 DO YOU CHECK CAPACITORS USING SUBSTI	22	24	7	
	0 220	01-34	: :	* *	-	
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_	0 223	DISTRICT TO YOU CALCULATE RESONANT TREDUENCIES	=	7	12	
-	P 224	CINCUIS 4 DI-40 DO YOU USE OR REFER TO THE GENERAL RULE THAT INPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESOMANT	15	=	8	
_	0 225	FREQUENCY FUR SERIES RCL D1-41 DO YOU USE OR REFER	=	2	1.7	
		CONTRACT 10 TAINING AND INTERNATION AS AND THE TAINING AS AND THE TAINING AND	=	?	•	
	922 0	POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK	:	•	•	
	0 227	7 DIESE DO YOU USE OR REFER TO THE GENERAL RULE THAT BANDRIOTH IS INVERSELY PROPOSITIONAL TO D	2	7	•	
	0 228	DI-44 DO YOU DETERMINE HOW CHANGES IN FI	•	•	=	
		ANGLES FOR RCL CIRCUITS				

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## TASK GROUP SURMARY PERCENT MEMBERS PERFORMING

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07-75K	U 224 D2-D1 1% YOUR PRESENT JOB, DU TOU WORK WITH, USE, OR REFER	230 02-02 00 100 1	231 02-03 DO YOU WORK WITH, USE, OR	C ANA DESCRIPTION WORK MITH, USE, OR REFER TO TRANSIFIED	A TATE THE RESERVE OF GRADE OF THE CONTRACT OF THE TATE OF THE CONTRACT OF THE	TIME CONSTANTS (TC)	D 234 D24-04 D0 400 USE OF REFER TO URIVERSAL TIME CONSIDER CHARLS.	CIRCUIT CURRENT OR CORPONENT VOLTAGES	SETON OF LA CONTROL	THE DESCRIPTION OF THE PROPERTY OF THE PROPERT	6 237 22-09 BO YOU USE EQUATIONS ON FORMULAS TO DETERMINE	COMPONENT VOLTAGES TO REACT SPECIFIC VALUES IN SPECIFIC	C 218 D2-10 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT	1		STREET BANGE ALLEGATION OF CHARGES A	03-03 50 400	242 03-04 DO YOU	243 63-05 30 YOU	244 03-04 DO YOU THOUBLE	245 D3-D7 D0 TOU KENOVE	244 DJ-08 BO YOU REMOVE	PARTS	247 03-09 DO 700 #ORK	248 03-10 00 700	11-fg 447	200	AND CLIMA DOZIO ACREMENTE LASSITATOR TOTAL DOSINATA	51 mil 0 13c	SECTION TO A CHARLE SECTIO	03-17	256 03-18		O 257 D3-10 DO THE FILTENS YOU BORK BITH USE SERIES-PARALLEL		CALCULATION OF THE TOTAL OF THE TOTAL OF THE THE TOTAL OF THE TOTAL OF THE

TASK GROUP SUNMARY PERCENT MEMBERS PERFORMING				
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E 24: E1-D1 DO YOU WORK WITH COUPLING DEVICES IN YOUR PRESENT JOU E 24: E1-D2 DO YOU DENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH MC	32	2 %	2.9 2.8 COUF	COUPLING
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274 E2-02 D	7	•		SOLDERING
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278 E2-06 DO YOU	2 ;	::	15	
279 E2-07		• ~	U. ∙0 U. •0	
281 E2-09 DO YOU	3,	<b>5</b>	<b>0</b> 1	
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284 E2-12 DO YOU	*	7	5.5	
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Dy-75k	F 327 F2-UI IN YOUN PHESENT JOBS DO YOU PERFORM ANY TASKS DEALING	128 62-02	DO YOU CLEAN SPE	330 F2-0*	321 4	CONNECTIONS BUT DO NOT INDUSTRAL DOEN TO CITTURES.	V 00 4006 3 644	333 F2-07 DO YOU REMOVE OR REPLACE COMPLETE SP	334 F2-00 DO YOU REHOVE ON REPLACE	F2-09 DC YOU PERFORM ANY TASKS	SAN TZ-10 DO TOU PERFORM ANT LASKS ON STEAKER	F2-11 DO YOU	THE STATE AND THE STATE OF STATE STA	F2-14 DO YOU PERFORM ANY TASKS ON SPEAKER	F2-15 DO YOU PERFORM ANY TASKS ON SPEAKER	FI-01 DO YOU USE DECILLOSCOPES IN	F 343 F3-02 DO YOU USE USCILLOSCOPES TO PERFORM OPERITIONAL	SATURANT TA ENGLISH OF ANGOLDS CLASS AND TO THE SEC.	ADJUSTMENTS	F 345 F3-04 DO YOU USE OSCILLOSCOPES TO TRUBLESHOOT ELECTRONIC	CIRCUITS	SAL FUADS DO YOU USE OSCILLOSCOPES TO REASONE	347 F3-04 DO TOU USE OSCILLOSCOPES TO	THE STREET OF THE CONTINUES TO CONTINUE CANADAM STREET	UTILIZING ATTENUATOR PROBES		PEASURENENTS USING DELAY TINE	TOTAL TOTAL OF YOU USE CONTINUES OF TRANSPORT OF ACCOUNTS OF THE PROPERTY OF T	SIGNALS AFTER FIRST ADJUSTING	F3-12	354 GI-DI DO YOU WORK WITH SEMICON	JOB SON YOU THEPECT DIODES	61-03 DO YOU	357 61-04 00 700	358 61-05 DO YOU	STANSOR OF THE PARTY AND A STAN AND AND AND AND AND AND AND AND AND A		TO COMPOSE FORMAND ON ABVERSE LING FENSONERS TO COMPOSE FOR STANDE FOR SEVERSE BIAS RESISTANCE FOR	

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٠	362	GI-OF DO YOU IDENTIFY SENTCHOLOUGH OF UNDER CITECTRONIC CONFONENTS, SUCH AS ARE	çs	*	<b>;</b>	
٠	343	GI-ID DO YOU REFER TO	•	0	•	
٠	* • •	•	37	•	9	
9 9	365	RESISTANCE 61-12 DO YOU USE ON REFER 61-13 DO YOU USE ON MEJER	* *	27	:-	
•	367	ELECTRON IN ORBIT ANDUND 61-14 DO YOU USE OF REFER	~	~	•	
9	368	9		53	42	
٠	369	AS IN SSE GI-10 DO YOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON	ergi	~		
•	370	GI-IT DO YOU USE OR	•	~	'n	
ي	371	•	*	7	32	
٠	372		m	~	'n	
	373	61-20 DO YOU	•	~	'n	
•	374	•	•	~	•	
•	375	9	*	8	•	
•	374	THE GUTERHOST SHELL) 61-23 DO YOU USE OR REFER TO ATOMIC NUMBER (TOTAL NUMBER OF FIRTHANK IN ATOMI	~	7	•	
٠	377	•	\$5	<b>S</b>	4.5	
•	378	101 00 101 P	23	7	17	
9	374	•	*	52	2 <b>8</b>	
9	360	INCREASES RESISTANCE 61-27 DO YOU USE ON NE CHARACTERISTIC CUNVES CHARACTERISTIC CURVES	<u>.</u>	7.	2	
9	36	TOININ OF SINCE AND	4.5	7	\$	
٠	382	61-29 DO YOU USE OF	~	<b>n</b> .	*	

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	57-73	SPC 074	SPC 077	SPC 078	
	61-30 DO YOU USE OF REFER TO FORBIDDEN BAND 18	•	~	•	
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6 385	•	•	~	•	
6 384	٠	•	*	11	
6 387	3	7	1.3	17	
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. 38+	SERICONDUCTORS GEN-JA DO YOU USE ON REFER TO ACCEPTOR IMPURITY IN	^	•	?	
390	SCHILLONDOLLONS GI-37 DO YOU USE ON REFER TO P-17PE SENICONDUCTOR	30	20	7.5	
146 9	61-10 DO YOU USE OR REFER TO	~ ~	2 ~	<b>?</b> ?	
	SENICONDUCTORS	. (	i ·	1	
6 393	SELECT DO YOU USE OR REFER TO RECORMY CARRENS IN	_	•	7	
9 3 4 4	61-41 DO YOU USE ON REFER TO AFRICANDULORS	•	'n	<b>=</b>	
4 395	9	=	<u> </u>	<u>*</u>	
946 9	•	^	•	12	
6 397	•	<b>5</b> ¢	52	78	
39.8	•	~	7	*	
	SEMICOMDUCTORS		*	-	
•	INFORMATION	,	7	2	
9	GITTO DO YOU USE OR REFER TO NAXITUR AVERAGE FOREARD CLARENT DIODE NATIONS	27	Ĩ,	-	
101 9	CI-48 DO TOU USE OR REFER TO PEAK MECURRENT FORMAND CURRENT	<b>2</b>	22	12	
4 102	3	52	28	•	
6 403	•	29	33	-	
0.	0100E MATING		1,1	20	
405	62-02 00 YOU INSPECT TRANSISTORS		7,	3	TRANSISTORS
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## TASK GROUP SUMMANY PEHCEST REMBERS PERFURNING

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PCT MORS RESPONDING TEST OF LEECTED GRPS. TASK GROUP SURMARY PERCENT MEMBERS PERFORMING	04-15K	) DO YOU TROUBLESHOOT OR REPAIR CASCADE - CONNECTED	YOU USE OR REFER TO VARACTORS YOU USE OR REFER TO TUNNEL DIODES	DO YOU USE OF REFER TO PIELD REFERT TRANSISTORS (FET)	DO YOU USE OR REFER TO ZENER DIDDES	R SUPPLIES	DO YOU CLEAN POWER SUPPLIES	,	DO YOU TROUBLESTOOM TO POREM SUBPLY CORROTATION	DO YOU REMOVE OR REPLACE COMPLETE POWER SUPPLIES	TOUR MEMORE ON AMPLANCE PORES SCHOOL CORPORATION	SEMPLE STATE STATE STATE STATE OF CO.	GE RECTIFIEDS	The state of the s	GO YOU GSE ON MERSE TO AND A COLUMN TO THE SECOND TO THE S	DO YOU USE OF REFER TO LEFT TARBUTANT	DO YOU USE OF REFER TO	TO AVERAGE OUTPUT VOLTAGE	DO YOU USE OF PERIOD TO BEEN REPORTED	DO YOU USE OR REFER TO	OR REFER TO SHAPE OF OUTPUT WAVEFORMS	DO YOU WILL ON REPER TO EFFECTIVE OUTPUT VOLTAGE	TO THE TIME CIRCUITS WHICH EXPLOY CAPACITIVE	MALENS DO YOU MORK MITH CIRCUITS MHICH EMPLOY INDUCTIVE	YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE	TOTAL DESCRIPTION AND AND AND AND AND AND AND AND AND AN	TAPUT LETYPE FULLERS	FILTERS	MS-27 DO YOU MONK AITH CIRCUITS WHIGH EMPLOY HE PILITPE 24	NA-28 DD YOU BORK BITH CIRCUITS WHICH EMPLOY DON'T 22 RENEWBER WHICH TIPE OF FILTER	M2-29 DO YOU HAVE THE OPTION OF REPLACING ONE TYPE OF	H3-01 DO YOU MORK MITH USCILLATORS IN YOUR PRESENT LOB SO
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TASK GROUP SUMMARY PERCENT MEMBERS PERFURNING				
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1 SAV 11-11 DO YOU WORK BITS MULTIVIBRATORS WHICH CONTAIN PRYSTAIN	•	-	24	
1 550 11-12 DO YOU BORK BITH MULITAIBRATORS MHICH CONTAIN DON'T	•	•	3	
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TOU WORK WITH	•	20	7	CLAMPERS
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12-06 DO YOU WORK WITH	4	-1	=	
12-07 DO YOU JORK WITH DON'T	^	^	J.	
12-04 DO YOU WORK WITH BASIC	17	2	71	
12-09 DO YOU WORK WITH DIODE	2	12	=	
DO YOU WORK WITH DON'T	•	^	*	
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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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DV-TSK	1 584 13-22 DG YOU CALCULATE ACTUAL VALUES OF TRIODE	1 587 13-23 DO YOU USE ON REFER TO MULTIGRID (TETRODE, PENTODE, FIC. AMPLIFICATION PACTORS.	DO YOU USE OR	J 589 13-25 DO YOU CALCULATE ACTUAL VALUES OF ELECTHON TUBE	1 590 13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER TAILED AT PLATE RESISTANCE	1 541 13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE	I 592 13-28 DO YOU USE OR MEFER TO ELECTRON TUBE INTERELECTRODE	DO YOU USE OR	NORK WITH ELECTRON TUBES I 544 13-10 DO 700 USE FORMAN TRRISTIC CURVES TO SELECT PLATE LONG TO THE PROPERTY OF	102	1 597 13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	ARGUINED FOR SATURATION	13-35 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER	u	TUBE AMPLIFIER GAIN 1 401 13-37 DO YOU USE WULTIMETERS TO DETERMINE ELECTRON TUBE	APPLIFIER GAIN 1 602 13-38 DO YOU USE OSCILLOSCOPES TO DETERMINE ELECTRON TUBE	APPLIFIEM GAIN 1 THANACIENISTIC CURVES TO DETERVINE	ELECTRON TUBE AXPLIFIER 6AIN 1 404 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH	AS I	1 605 134-41 DO YOU USE OR REFER TO TORK SUCKE, NO. ALTERS	13-43 DO YOU USE ON REFER TO	¥ 0 0 0	1 404 13-44 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL	DO YOU MORK IN	10 JUNE TREAMINE THE CLASS OF OPERATION FOR ELECTRON TO SID JI-02 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON TO THOUSE ESHOOT AMPLIFIER CLACULOS AMPLIFIER

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UY=15K	A 642 A1-US DO TOU TROUBLESHOOT TO AN TRANSHIT OR RECEIVE SYSTEMS K 643 KI-DE DO YOU TROUBLESHOOT TO AN TRANSHIT ON RECEIVE	COMPONENTS K 644 KI-07 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE	STATEMS K e45 R1-08 DO YOU REHOVE OR HEPLACE AH TRANSHIT OR RECEIVE	CORPONENTS 444 K1+D4 D0 YOU PERFORM	KI-10 DO YOU PEHFORM TASKS ON RF AMPLIFIERS	A GEB KINEL DO YOU PERFORM TANKS ON AUDIO ANTINERS	SC KI-13 DO YOU PEHFONN TASKS ON LOCAL	651 41-14 DO YOU PENFORM TASKS ON IF AMP	N 642 NINING DO YOU PERFORM TASKS ON DETECTING	654 KI-17 DC YOU USE UN MEFER TO AMPLITUDE STABILIZATION IN	K 655 A1-18 DO YOU USE OR MEFER TO PREQUENCY STABILIZATION IN	ASA KITIF DO YOU USE OR HEFER TO	KI-20 DO YOU USE OR REFER TO SELECTIVITY OF	KI-ZI DG YOU USE ON REFER TO ZND HARMONIC DI	-59 K1-22 DO YOU USE OR REFER TO	660 K1+23 DO TOU USE OR REFER TO	350 001 00 57-11 199	DO YOU USE ON REFER TO	TAN TOTTON DO TOTO AND	TARY DO TOO TARK WINDERS OF COATES TARKS	K 645 KI-26 DO YOU TRACE SIGNALS OF CURRENT PATHS THROUGH AM			DO YOU INSPECT FM THANSMIT OR MECEIV	668 K2-03 DG YOU CLEAN FM TRANSMIT OF RECEIVE	THE REAL PROPERTY AND THE PARTY OF THE PARTY	an Itanaka E	K 671 K2-06 DO YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE	SENSE COMPONENTS		K 673 K2-UB DO YOU RENOVE ON REPLACE FM TRANSHIT OR RECEIVE	COMPONENTS  A A A A A A A A A A A A A A A A A A A	KZ-10 DO YOU PERFORM TASKS ON

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# PCT MBRS RESPONDING TYES! BY SELECTED GAPS

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C7-75	K 476 K2-11 DO YOU PERFORE TASKS ON DRIVERS (INTERMEDIATE	K 677 K2=12 DO YOU PERFORM TASKS ON POWER AMPLIFIERS K 478 K2=13 DO YOU PERFORM TASKS ON RE AMPLIFIERS	.79 K2-14 DO YOU PENFORM TASKS ON	.BO K2-15 DO YOU PERFORM TASKS ON	N GOT KRITO DO YOU PERFORM TANKS ON CIMILINA DO YOU DO YOU WANTED BY	683 AZ-18 DO YOU TRACE SIGNALS OR	SCHEANIC DIAGRARS OF FR HRANSLINGS STREET BAILS DE CLEAR FOR TROUGHT STREET FRANK FRANKS TROUGHT	SCHEMATIC DIAGRAMS OF FIN RECEIVERS	K 645 KI-01 DO YOU CONVERT DECIMAL IBASE 101 NUMBERS TO OCTAL	CASE K3-02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2)	THE PROPERTY OF THE PROPERTY O	コー・コー・コー・コー・コー・コー・コー・コー・コー・コー・コー・コー・コー・コ	ABS RU-US DO YOU CONVERT BINARY	. TO K3-04 DO YOU CONVERT	491 K3-07	+42 K	CARRY METHOD OF THE PROPERTY NAMED AND ACT OF THE CARRY O	SUBTRACTION METHOD	×	\$4.5	YMBOLS	OR GATES	L 697 LI-03 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	L 698 LI-04 DO YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC	ABLES FOR EXCLUSIVE OR LOGIC	SYMBOLS OR GATES	C AGO CALLOS ON CATES	L 701 L1-077 DO YOU USE OR REFER TO TRUTH TABLES FOR UP LOGIC	SYMBOLS ON GATES		REFER	LOGIC SYMBOLS	L 704 LI-10 DO YOU USE ON REPERT TO LOGIC SYMBOLS FOR AND GATES	LICIT DO TOU USE OF REFER TO LOGIC STREOLS FOR	

BOOLEAN EQUAT IONS 5°C 078 7 1 77 24 \* 5 2.4 SPC 077 2 5PC 076 : 0.7 7.0 L 709 L2-62 DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUITS
L 710 L2-63 DO YOU CONSTRUCT TRUTH TABLES FOR CUMRENT MODE LOGIC L2-14 DO YOU MORK WITH BISTABLE IFLIP-FLOF! MULTIVIBHATONS L2-15 DO YOU WORK MITH MONOSTABLE (ONE-SHOT! L 715 L2-08 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED THANSISTOR LOGIC (OCTL) CIRCUIT GATES LOGIC OCTL) CIRCUIT GATES TO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE LOGIC (CHL) CIRCUIYS 2-10 DO VOU USE DA REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE DO TOU COMPUTE SUM AND CAMPY EXPRESSIONS FOR SERIAL ON FULL ADDER LOGIC DIAGRANS
DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER L 7U7 LI-13 DO YOU USE ON REFER TO LOGIC SYMBOLS FOR EXCLUSIVE L2-05 DU 700 MEASUME IMPUTS ON OUTPUTS OF LUGIC GATES L2-06 DO 700 DEVELOP ON ANALYZE BROLEAN EGUATIONS IN THE PROCESS OF TROUBLESHUDTING DIGITAL CIRCUITS L2-07 DO 700 GNALYZE LOGIC CIRCUITS BY USING BOOLEAN L 706 L2-01 IN YOUR PRESENT JOB. DO YOU PERFORM ANY TASKS. RELATING TO BOOLEAN EQUATIONS, LOGIC OIAGRAMS, OR LOGIC L 711 L2-n4 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN LOGIC DIAGRANS LZ-13 DO YUU MORK WITH ASTABLE (FREE RUNNING) JY-15K TASK GROUP SURNARY PERCLAT MEMBERS PERFORMING ULTIVIBHATORS CALI CIRCUITS SNOT TOUR OR GATES RCUITS 1 714 12-07 110 L2-1 712 7.13 7117 723 719 1 720

L2=18 DO YUU USE ON NEFEN TO FLIP-FLOP CINCUIT DIAGNAMS 19
L2=19 DO YOU USE ON NEFEN TO FLIP-FLOP TRUTH TABLES 15
L2=20 DU YOU USE ON NEFEN TO COMPLEMENTED FLIP-FLOP
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L2=21 DO YOU USE ON NEFEN TO COMPLEMENTING FLIP-FLOP LOGIC 15
SYMBOLS

12-21 12-51

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L2-14 DO YOU USE OM RLFEM TO FLIP-FLOP MULTIVIBRATOM SYMBOLS L2-17 DO YOU USE OM MEFEM TO SINGLE-SMOT MULTIVIBRATOM

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SYMBOLS
L2-22 DO YOU MEASURE OUTPUT MAYESMARES OF LOGIC CIRCUITS
L 730 L2-23 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP
15 SCHEMATIC DIAGNAMS
L 731 L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP15

L 731 L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP SCHEMATIC DIAGRAMS L 732 L2-25 DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP LOGIC SYMBOLS

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### TASK GROUP SUNTARY PERCENT NERBERS PERFOREING

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3PC	*	~	•	•	•	7	-	•	•	'n		•	9-4	
UY-TSR		P 972 P1-20 DO YOU MORK MITH TRANSMISSION LINES MMICH ARE MATCHED TO LOADS USING DELTA HATCHING		P 974 PI=22 DO YOU USE OF REFER TO THE TEAT CHARACTERISTIC	P 975 F1-23 DG YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (20) OF TRANSMISSION LINES	P 476 PI=24 DO YOU USE OR REFER TO THE TERM CUTOFF FREGUENCY OF TRANSMISSION LINES	P 977 P1=25 DD YOU USE OR REFER TO THE TERM VELOCITY FACTOR (K) OF TRANSMISSION LINES.	F 97% PI=26 DO YOU COMPUTE THE ELECTRICAL LENGIN OF THANSMISSION LINES FOR PARTICULAR FOR DIRECT.	F 474 F1427 DO YOU CONSTRUCT TRANSFILLEN LINES OF FARTICULAR RIEGERALCAL LENGTH FOR GIVEN FREDURNIER	P 480 PS+28 DO YOU USE ON METER TO THE GENERAL BULE THAT AS THE PRECOUNTY OF THE OFFICE THAT AS THE	TRANSMISSION LINES ACEASIN CONSTANT, THE ELECTRICAL LENGTH	P 901 P1-29 DO YOU WORK WITH NONRESONANT IFLAT! TRANSMISSION	F 482 PI-10 DO TOU MORK BITH RESONANT TRANSMISSION LINES F 483 PI-11 DO TOU MORK BITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING STUB MATCHING	P 984 PZ-01 DO YOU WORK WITH MAVEGUIDES OR CAVITY RESONATORS IN YOUR PRESENT JOB

WAVEGUIDES AND CAVITY RESONATORS DO YOU INSPECT WAVEGUIDES OR CAVITY RESONATORS
DO YOU CLEAN MAVEGUIDES OR CAVITY RESONATORS
DO YOU BEND MAVEGUIDES OR CAVITY RESONATORS
DO YOU PRIST WAVEGUIDES OR CAVITY RESONATORS
DO YOU PRESSURIZE NAVEGUIDES OR CAVITY RESONATORS
DO YOU PURGE MAVEGUIDES OR CAVITY RESONATORS
DO YOU PURGE MAVEGUIDES OR CAVITY RESONATORS
DO YOU REMOVE OR INSTALL COMPLETE WAVEGUIDES
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DO YOU REMOVE OR INSTALL DUMNY LOAC"
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PCT MBAS RESPONDING .YES! BY SELECTED GRPS

GPSH76 PAGE 34

TASK GROUP SURMARY PERCENT MEMBERS PERFORMING

	υγ−15κ	5 P.C 07 &	5PC 077	SPC 076
111	P2-20 DO YOU USE OR REFER TO "B" WALL OF MAYEGUIDES P2-21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF WAVEGUIDES P2-22 DO YOU USE OR REFER TO FREQUENCY-DETERMINING WALL OF	-24	0	767
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P1008	•	~	0	•
P1009	•	-	O,	
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1014	OF THE OPERATING PRESCRICY PR-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT HOST "A" MALES RANGE FROM "-2 TO "B MAVELENGTHS IN SIZE, WITH "35	-	Ö	
P1012	75-24 KH 10	~	-	~
P1013	P2-10 DG YOU COMPUTE THE LENGTH OF A MAVEGUIDE FOR SPECIFIC INSTALLATION	-	-	
F1014	PROPAGATION,	~	9	<b>0</b> 04
P1015	PARTICION OF THE TANKENING OF PEAK PER OR BARNES OF PEAK PEAK PEAK PEAK PEAK PEAK PEAK PEAK	~	0	٠
F1014	P2-15 DO YOU MEASURE THE TIME PHASE OF "E" ON SHE LIKES IN MANELHING.	-	э	*
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P1019	PRESENTATIONS OF CAVITY STRUCKS OF CAVITY STRUCKS OF CAVITY		0	•
P1014		~	-	v
P1020	PRESONATIONS TO BOTH WITH PROPERTY PROP	~	-	
P1021	-	~	9	•
P1022	P2-39 ARE DON'T REMEMBER THE THE OF ENERGY COUPLING USED ON MANAGEDISTS OF CANITY RESORGANCE YOU NOW HIT	~	7	-
P1023	TERE PROBES	-	0	~
P:024		-	0	•

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PCT MBRS RESPONDING \*YES\* BY SELECTED GRPS

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TASK GROUP SUMMARY PERCENT REMBERS PERFURNING

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5PC 077	3	~	-		~-	•	-	^	•,	•	<b>-</b> つ	0	w	-	•		<b>.</b>	• •	*	~	9	~ ~	-	٠.	n	, ,	-	* *	~
SPC 078	0	~	~	~	~ `	• ~	-	~	0.	,	* ~	2	^	~	•	<b>-</b>	t	r <b>4</b>	*	m	~	~ ^	-	۰ ۲	n	~ =	r →	* "	~
DY-15K	<b>A.</b>	•	PALLE ARE ROTATI	APLOXABLOAN YOU KOKK BANK ALLA OF LOLKING IN THE OF LOLKING USED IN	TATE OF THE TAX TO THE TAX	PA-44 DO TOU TONE CAVITY RESONATORS	DA PRINC DO YOU TUNE CAVITY MOSONATOMS COING DON'T MEMERICA The method of tuning	•		STOREMENT	P3-02 Do You	PARCH DO YOU USE OR REFER TO	P3-05 DO YOU USE OF REFER TO	CINCULTRY 39 P3-06 DO YOU USE OR REPER TO PRINCIPLE OF ELECTRON VELOCITY.	MODULATION	FO FO-DA DO YOU USE ON REGEN TO REFECTION DUNCTING	P3-04 DO YOU	70 00 01-E4	P3-12 00 700 MORK	AMPLIFIERS	P3-14 DO YOU	P3-15	P3-17 DO 70U	P3-18 DO YOU TUNE KLYSTHONS ON THE MECHANICALLY	5.2 P3.4.19 DO YOU PERFORM OPERATIONAL CHECKS OF KLTSTMONS OF	P3-20 00 YOU	F3-22 DO 100	P3-23 00 16U	P3-25 DE 100
	91038	1:25	P1027	P1028	P1024	P1030	P1634	1133	P1534		P1035	71014	P1038	P1039	•	3,014	1045	P 1043	P1045	4	1047	104	1000 A	10014	P1052	P1053	P1054	P1056	1058

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	01-15K	5PC 076	5PC	5.P.C 0.7.8
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91004 91004 91004	70-100 AOC		300	n
7 10 4 4 10 6 4 10 6 4 10 6 4 10 10 6 4 10 10 10 10 10 10 10 10 10 10 10 10 10	P3-34 DO YOU TUNE MAGNETHONS P3-35 DO YOU PERTORN OPERATIONS P3-34 DO YOU PROUBLESHOOT NAGNE P3-37 DO YOU REHOVE OR REPLACE		0000	M
P1071	44	<b>~ ~</b>	00	<b>- 0</b> -
P1073	73-40 00 740-CAVI 73-41 00	~ ~	0 0	• •
F1075		<b>~</b>	0 0	<b>"∩</b> •
P1077	TWO-CAVITY KLYSTRONS DRIFT SPACES P3-44 DO YOU USE ON REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS BUNCHER GRIDS P3-44 DO YOU USE OF BRIDE OF TO THE OPERATING PRINCIPLE OF	٠.	<b>9</b>	• :
*1014	TWO-CAVITY KLYSTRONS BUNCHER CAVITIES  FURTHER DO YOU USE OR REFER TO THE OPERATING PRINCIPLES  TWO-CAVITY KLYSTRONS CONTROL GRIDS	- ~		
#10##	P3447 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TMOCRATTY REFYSTROMS CATHODES P3448 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF BREFIEW REPRESENTED THE OPERATING PRINCIPLES OF	N 19	o ~	• ~
F1082	GR NO SEE	m N	- 0	2 6
**************************************	GRID CAVITY GAPS OR REFER TO THE OPERATING PRINCIPLES RESONANT CAVITIES	<b>3</b> .	- '	<b>2</b> 1
P1085	FESTER TO YOU USE OR REFER TO THE OFERATING FRINCIPLES OF REFLEX RLYSTROM MASKNTIC COUPLING LOOPS PUSSED TO YOU USE OR REFER TO THE OPERATING FRINCIPLES OF REFER XLYSTROM FILMMENTS	~ ~	<b>ɔ</b> →	• •
P1087		•	-	7.

GPSH7& PAGE 39	
PET MERS RESPONDING OVESO BY SELECTED GRPS	TASK GROUP SUMMARY FERFORMING

×	5.PC 0.76	5PC 5	5 P.C 076	
PICES PI-55 DO YOU USE ON REFER TO THE OPENATING PRINCIPLES OF	~	_	•	
PACKET TO THE TOTAL OF THE OPERATING PRINCIPLES OF	~		<b>√</b>	
FIGED PASSED NO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	•	-	•	
TABLE TOBES CATHODES CATHODES OF THE OPERATING PRINCIPLES OF	~		1	
TAAVELINGSAVE TUBES MODULATOR GREDS F1042 P.S. CO. TO. O. O	•	-	•	
PLOAS PS-60 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	•	~	•	
PICON PING DO YOU USE ON REFER TO THE OPERATING PRINCIPLES UF	~	၁	•	
TRAVELING-MAVE TUBES COLLECTORS P12+5 P3++5 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	~		•	
THANKELINGERS AND TOUR OF THE OFFICE OF THE OFFICE PRINCIPLES OF	•	~	~	
TABABLE MERENT ATTENDATOR OF PARAMETER FERRITE STREET AND YOU FOR THE STREET OF TABABLE STREET OF TABA	-		-	
CINCULATORS DO YOU PENFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL	~	~	-	
FIGGO PAGE BO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER IDLEM	~	~	-	
CAVITIES P3-67 DO TOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR	~	<b>≈</b> r	_	
DILDES PILL P3-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE	~	٥	-	
₹ "	0	O		
BIAS BATTLRIES  FILOS PATTLRIES  FILOS PATTLRIES	7		۸	
P3-71 DO YOU PERFORM TASKS ON	-	0	*	
TILOS PU-72 DO VOU PRADORA TANKA ON COUPLING LOPS	~ -	0 9	w ~	
NO SASAT MEREORE TASKS ON		, ο,	, <b>.</b>	
PILOG PL-75 DO TOU PERFORM TASKS ON CATRODES TILOG PS-76 DO TOU PERFORM TASKS ON MAGNETS	~ ~	<b>၁</b>	w w	
9UI DO YOU USE ON REFER TO	32		52	
GIIII 31-02 00 700 05E UN REFER TO SMIFT MEDISTERS QIII2 01-03 00 700 USE OR REFER TO LOGIC SYMBOLS OF SMIFT	77	27	26 REG	REGISTERS
REGISTERS GIII3 91-54 DO YOU USE ON REFER TO LOGIC SYMBOLS OF STORAGE	27	27		! ! !
REGISTERS GIII" 31-05 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF	\$	52	26	
SHIFT REGISTERS THE STATE THE STATE FILE THROUGH INGINE DIRECTION OF	*	2.3	2.0	
STATE THE STATE OF	•	2	3	

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GPSH74 PAGE. 40

TASK GROUP SURMARY PERCENT MEMBERS PERFURGING

			STORAGE BENTOES	STURMUE DEVICES							DIGITAL TO ANALOG CONVERTERS																		
5.P.C 0.78	20	7	7.	75	9 !	30		•	70	32	36	9		2		52	:	:	٠	•	•	Þ	J.	-	. :	_	•	<u>.</u>	3
5PC 077	70	3.	-	=	• ;	- 2		: :	: <u>:</u>	34	=	:		•		~	2	2	•	7	=	:	٠	7	. :	2	^	13	<b>.</b> 0
SPC 979	20	33	=	21	٥;	20	22	; :	= =	34	•	•		2		<u>-</u>	-	2	•	^	5	•	•	2	. =	-	•	~	•
DY-TSK		WORK	TOU USE OR REFER TO	92-03 DO YOU USE OR REFER TO MAGNETIC	2 0	92-06 DO YOU USE OR REFER TO ACCESS T	MENORY SYSTEMS 41123 42-07 DO YOU USE OR REFER TO WOND CAPACITY OF MEMORY	10 VOLATII 17 OF ME	42-09 DO YOU USE OF REFER TO LOGIC SYMBOL OF DELAY	GILLS WATCH IN YOUR PRINKEN COO. DO YOU KONK WITH DIGHTAL-TO-	CONVERTERS, OR BINARY PICTURES MEASURE CONVERTERS BUILDS OF YOU COMPUTE CUIPUT VOLTAGES FOR ELECTROMYCHANICAL	10-1	THE TANK WIND TO USE OR REPER TO THE PRESENCE OF THE TANK THE	COUNT IN ELECTHOMECHANICAL DIGITAL-TO-ANALOG (D/A)	RESISTORS	GIRSA GA-DA DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY	SEMILATIVE OF THE TAIL THE TAIL TO THE TAIL TO THE TAIL T	CIRCUITS	AMALO	DO YOU PERFORM COMPARE		TIME ANALOG-	CILLS GUELOW DO YOU PERFORM DOX** REMEMBER WEICH FUNCTION NASKS On variable Time analog=To=Digital (a/o) Conventia	U USE OR REFER TO SAMPLE	CONNERTERS Ulibe 43=11 DO YOU USE ON REFER TO HOLD FUNCTION OF AZO	CONVERTERS	G1137 43=12 DO 700 USE OR REFER TO COMPARE FUNCTION OF A/O	JIJ38 93-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/O	JII39 43-14 DO YOU PEHFORM ANY TASKS ON MECHANICAL ANALOG-TO- DIGITAL (A/D) CONVENTERS

PET NORS RESPONDING TEST BY SELECTED GRAS

CPSHZ& PAGE 41

TASK GROUP SUMMARY PERCENT MEMBERS PERFURNING

PHANTASTRONS		SCHMITT TRIGGERS		NOTTACTORY T	CABLE PAGRICALION		DEVICES		PHOTO SENSITIVE DEVICES			SYNCHRONOUS VIBRATIONS	(CMOPPER LIRCUITS)									INFRAKEU								
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SPC 077	54	20	7		7	7	30	**	-	F	יטי	n T	30	*	•	'n	•	•		^	^	'n	• '	` ^		•	J	^	•	
5PC 076 3	25	=	7	25	\$	-	77	7	=	=	.s.	A F	•	•	•	ď	*	•	Ì	•	ĸ	*	.n .	A	1	*	*	'n	٠	
	RII41 MZ-01 IN YOUR PRESENT JOB DO YOU HORK HITH SCHNITT TRIGGER	MII42 R2+D2 DD YOU TRACE DATA FLOW THROUGH SCHWITT TRIGERR SCHEMATIC DIAGNAMS	REFER TO SCHMITT TRISES	SITAL MULTINOVOL TARNESTY LOS DO YOU FABRICATE HULTINONDUCTOR	RA-DZ DO YOU FABRIC	STAN MON I	SINGS DO YOU PENFORM ANY TASKS ON MIXIE LIGHTS OR NIXIE		SILST SHOULEAN ALGEBRA	SS-DI IN YOUR PRESENT JOB DO YOU WORK MITH CHOPPER	S3-02 DO YOU HEASURE	SILES SELECT DO TOU MEASURE TOTABLE TURKENT TRESCENCIFFS SILES SELOT DO TOU USE OR REPER TO EXCITATION TRESCENCIFS	S3-US DO YOU USE OR REFER	STREET, SOUTH AND	CIRCUIT OPERATION	SILSE SUFOY DO YOU USE DETECTORS IN CONJUNCTION FITE CHOPPER	YOU USE EF	Cristing Circult Operation Silse Saloy Do You Use Companison Circults in Columnition with	CHOPPER CIRCUIT OF	TINGS TINGS TOUR PRESENT JOB INVOLVE ANY TASKS DEALING MITH	11160 T1-02 DO YOU INSPECT INFRARED SYSTEMS	TI-03 DO YOU CLEAN INFRARED SYSTEMS	TI-O4 DO YOU ADJUST	2 2	SYSTERS	TILES TIEDS DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARIO	TILGE TI-US DO YOU TROUBLESHOOT DOWN TO INFRARED SYSTEM	COMPONENT PARTS TILE? TI-DP DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF	INFRANCO SYSTEMS Tiles Tiles To Do You Ready or replace infrance system	COMPONENT PARTS

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DY=15K	11-11 DO YOU USE OR REFER TO IMERRE 11-13 DO YOU USE OR REFER TO IMER RE 11-13 DO YOU USE OR REFER TO MICRON 11-14 DO YOU USE OR REFER TO GRAY BO 11-15 DO YOU USE OR REFER TO GRAY BO 11-16 DO YOU USE OR REFER TO GRAY BO 11-16 DO YOU USE OR REFER TO GRANT 11-19 DO YOU USE OR REFER TO GRANT 11-20 DO YOU PERFORM TASKS ON COULAR 11-21 DO YOU PERFORM TASKS ON COULAR 11-23 DO YOU PERFORM TASKS ON COULAR 11-24 DO YOU PERFORM TASKS ON FILTER 11-25 DO YOU PERFORM TASKS ON FILTER 11-25 DO YOU PERFORM TASKS ON FILTER 11-26 DO YOU PERFORM TASKS ON FILTER 11-27 DO YOU PERFORM TASKS ON FILTER 11-27 DO YOU PERFORM TASKS ON FILTER	TZ+61 DOES YOUR PRESENT JOB INVOLVE LASERS 12+02 DO YOU INSPECT LASER SYSTEMS 12+03 DO YOU CLEAN LASER SYSTEMS 12+03 DO YOU OPERATE LASER SYSTEMS 12+05 DO YOU OPERATE LASER SYSTEMS 12+05 DO YOU OPERATE LASER SYSTEMS LASER AYSTEMS	ENS DO YOU TROUBLESHOOT NAJE DO YOU TROUBLESHOOT TO ENS DO YOU REHOVE OR REPLACENS	T1196 T2-11 DO YOU USE OR REFER TO ANGSTROMS (A)  T1197 T2-12 DO YOU USE OR REFER TO SECURION ENERGY LEVELS  T1199 T2-13 DO YOU USE OR REFER TO SECURIO STATE  T1201 T2-15 DO YOU USE OR REFER TO PACKET OF RADIATION  T1202 T2-15 DO YOU USE OR REFER TO PROTONS  T1203 T2-16 DO YOU USE OR REFER TO PROTONS  T1203 T2-16 DO YOU USE OR REFER TO SPONTANEOUS EMISSION  T1204 T2-17 DO YOU USE OR REFER TO STANLATED EMISSION  T1205 T2-20 DO YOU USE OR REFER TO HONOCROMATIC  T1205 T2-21 DO YOU WORK WITH ACTIVE MATERIALS  T1207 T2-22 DO YOU WORK WITH FULL SILVERID (1008 REFLECTIVE)  HIRRORS

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	GROUP SUMMARY	PERCENT MEMBERS PERFORMING
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PET HBRS RESPONDING .YES. BY SELECIED GRPS

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TASK GROUP SUMMARY PERCENT MENDERS PERFORMING

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S OY=TSK	UIZEG UI=16 DO YOU PERFORM TASKS DN INPUT ORVICES UIZEG UI=17 DN YOU PERFORM TASKS DN STORAGE DEVICES UIZES UI=18 DO YOU PERFORM TASKS DN ARITHMETIC SECTIONS UIZES UI=19 DO YOU PERFORM TASKS DN CONTROL SECTIONS UIZES UI=20 DO YOU PERFORM TASKS ON OUTPUT DEVICES UIZES UI=21 DO YOU PERFORM TASKS ON POWER SUPPLIES	U:255 U2-01 DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND ATTENUATION U:256 U2-02 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT PUMER IN DECIBELS	UIZS7 U2-63 DG YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN DECIBELS UIZS8 UZ-64 DUMMY TASK TO IDENTIFY INCUMBENTS WHO PERFORMED NO TASKS